

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number
WO 2005/003195 A1

(51) International Patent Classification⁷: **C08F 110/10**,
232/02, 232/04

(21) International Application Number:
PCT/US2004/021320

(22) International Filing Date: 1 July 2004 (01.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/484,170 1 July 2003 (01.07.2003) US

(71) Applicant (for all designated States except US): **THE UNIVERSITY OF AKRON** [US/US]; 302 Buchtel Commons, Akron, OH 44325 (US).

(71) Applicants and

(72) Inventors: **KENNEDY, Joseph, P.** [US/US]; 510 St. Andrew Street, Akron, OH 44303 (US). **PEETZ, Ralf, M.** [DE/US]; 587 Greissing Ter., Akron, OH 44311 (US).

(74) Agent: **FIRCA, Donald, J.**; Roetzel & Andress, 222 South Main Street, Akron, OH 44308 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: THERMOPLASTIC ELASTOMERIC MULTIBLOCK COPOLYMERS OF ISOBUTYLENE AND NORBORNENE

(57) Abstract: A composition of matter including a polyisobutylene segment and a polycycloolefin segment. The polyisobutylene segment and the polycycloolefin segment form a repeating unit multiblock copolymer. A method of forming a composition of matter that includes a polyisobutylene segment and a polycycloolefin segment.



WO 2005/003195 A1